



ST. CHARLES
SINCE 1834

AGENDA ITEM EXECUTIVE SUMMARY

Title: Recommend approval of Wells 3 & 4 Radium Removal Construction Project Change Order #5

Presenter: John Lamb

Please check appropriate box:

<input checked="" type="checkbox"/>	Government Operations	X	Government Services 01.23.12
<input type="checkbox"/>	Planning & Development		City Council
<input type="checkbox"/>	Public Hearing		

Estimated Cost:	\$32,030.66	Budgeted:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
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If NO, please explain how item will be funded:

Executive Summary:

Staff is requesting approval of Radium Removal Project Change Order #5 for the following items:

- | | |
|---|--------------|
| 1. Additional rock excavation for building and tieback wall due to variations in bedrock. | \$21,112.60 |
| 2. Four foot man gate added to fencing at front drive for personnel and mower access. | \$ 1,164.14 |
| 3. Motor starter for exhaust fan for interlocking with louvers for HVAC balancing. | \$ 1,684.39 |
| 4. Riverside Avenue manhole modifications, additional mobilizations. | \$ 8,710.34 |
| 5. Deduction for pavement changes in contract eliminated patching and paving entire area. | (\$8,598.18) |
| 6. Modifications to piping for ventilation and recirculating of chemical tanks. | \$6,563.37 |
| 7. Electrical conduit and wiring to connect exhaust fan with exhaust louver. | \$ 935.00 |
| 8. Add momentary, disconnect switch for chemical transfer pump. | \$ 459.00 |

Total \$32,030.66

EEI, the City engineering firm reviewed change order with City staff prior to work or changes. Change order will be forwarded to IEPA for approval and inclusion into low interest loan amount.

Attachments: *(please list)*

EEI Change Order and Recommendation
Change Order #5 Form

Recommendation / Suggested Action *(briefly explain):*

Staff recommends approval of Radium Removal Project Change Order #5 in the amount of \$32,030.66 and a resolution authorizing the Mayor and Clerk to execute on behalf of the City of St. Charles.

For office use only:

Agenda Item Number: 4.i

City of St. Charles, Illinois
Resolution No. _____

**A Resolution Authorizing the Director of Finance to Execute Change
Order No. 5 for the Wells 3 & 4 Radium Removal Construction Project
with EVS Construction Company.**

**Presented & Passed by the
City Council on**

WHEREAS, by the Mayor and City Council of the City of St. Charles, Kane and DuPage Counties, Illinois, a home rule municipality in the exercise of its home rule powers, that the Director of Finance is authorized to execute Change Order No. 5 in favor of EVS Construction Company, in the amount of \$32,030.66 with respect to additional rock excavation for building and tieback wall, four foot man gate added to fencing at front drive, motor starter for exhaust fan, Riverside Avenue manhole modifications, deduction for pavement changes, modifications to piping for ventilation and recirculating of chemical tank, electrical conduit and wiring to connect exhaust fan with exhaust louver, addition of momentary disconnect switch for chemical transfer pump in regard to the Wells 3 & 4 Radium Removal Construction project contract entered into on or about June 16, 2010, a copy of said change order being attached hereto and made a part of this Resolution. It is determined that the circumstances necessitating this change order were not foreseeable at the time the original contract was signed, the change order is germane to the original contract as signed, and the change order is in the best interest of the City and authorized by law.

NOW THEREFORE, be it resolved by the Mayor and City Council of the City of St. Charles, Kane and DuPage Counties, Illinois.

PRESENTED to the City Council of the City of St. Charles, Illinois, this day of

PASSED by the City Council of the City of St. Charles, Illinois, this day of

APPROVED by the Mayor of the City of St. Charles, Illinois, this day of

Donald P. DeWitte, Mayor

Resolution No. _____

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ATTEST:

City Clerk

COUNCIL VOTE:

Ayes:

Nays:

Absent:

Abstain:

CHANGE ORDER

Order No. 5

Date: January 4, 2012

Agreement Date: June 16, 2010

NAME OF PROJECT: Wells No. 3 and 4 Radium Removal Project and associated appurtenances.

OWNER: City of St. Charles

CONTRACTOR: EVS Construction Company

The following changes are hereby made to the CONTRACT DOCUMENTS:

PCO 16: Site Work Bid Schedule Unit Quantity Adjustments

PCO 17: 4-foot Ornamental Fence Man Gate

PCO 18: Motor Starter for Exhaust Fan EF-1

PCO 19: Manhole Frame Adjustments

PCO 20: Pavement Bid Schedule Unit Quantity Adjustments

PCO 21: Interior Water and Chemical Piping Modifications

PCO 26: Exhaust Fan EF-3 Wiring

PCO 27: Momentary Switch for Chemical Transfer Pump

Justification:

PCO 16: A number of Site Work quantities were adjusted during construction. Items include credits for Sanitary Sewer work, Cut Off Wall work, Footing Overexcavation and Backfill, and Ornamental Fence work. It also includes extra Rock Excavation for the Building and Utilities due to variations in the bedrock profile. The cost for this work is based on the Unit Prices on the Bid Schedule – see support documentation from EVS (Add: \$21,112.60).

PCO 17: A 4-foot Ornamental Fence Man Gate was added on the east side of the building for personnel and mower access (Add: \$1,164.14).

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PCO 18: A Motor Starter for main building Exhaust Fan was added to allow for interlocking with Intake Louver for proper HVAC balancing (Add: \$1,684.39).

PCO 19: Each of the manhole frames in the portion of Riverside Ave. that was paved as part of this contract were adjusted and set in concrete. This work was done in 3 days between installations of the binder and surface courses of pavement. The cost includes the materials and labor to adjust and set the manhole frames, as well as additional mobilization costs due to the time required between asphalt course installations (Add: \$8,710.34).

PCO 20: Modifications to the pavement depth were made to match the existing Riverside Ave. roadway cross-section. Additional areas were paved with the binder and surface courses of asphalt for a more uniform appearance. The cost for the original work is based on the Unit Prices on the Bid Schedule. The cost for the additional work is based upon Unit Prices that the Contractor procured through a bidding process. The costs are as indicated in the chart below (Deduct: \$8,598.18).

ITEM NO.	ITEMS	UNIT PRICE (\$)	AWARDED QUANTITY	UNITS	AWARDED VALUE (\$)	ADJUSTED QUANTITY	ADJUSTED VALUE (\$)
B-43	SAWCUT EXISTING 4-INCH BITUMINOUS PAVEMENT	2.00	433	LF	866.00	51	102.00
B-44	EXISTING 4-INCH BITUMINOUS PAVEMENT - REMOVAL	4.20	1,272	SQ. YD.	5,342.40	2,450	10,290.00
B-45	AGGREGATE BASE COURSE 4"	4.95	1,380	SQ. YD.	6,831.00	0	0.00
B-46	BITUMINOUS MATERIALS (PRIME COAT) (0.40 gal/SY)	3.70	552	GAL	2,042.40	979	3,622.30
B-47	HOT-MIX ASPHALT BASE COURSE-5-1/4"	66.50	408	TON	27,132.00	0	0.00
B-48	HOT-MIX ASPHALT BINDER COURSE, 2-1/4", IL 19.0, N50 (ORIGINAL)	66.50	175	TON	11,637.50	175	11,637.50
B-48	HOT-MIX ASPHALT BINDER COURSE, 2-1/4", IL 19.0, N50 (ADDITIONAL)	82.00	0	TON	-	151.96	12,460.72
B-49	HOT-MIX ASPHALT SURFACE COURSE, 1-1/2", MIX C, N50 (ORIGINAL)	73.65	155	TON	11,415.75	155	11,415.75
B-49	HOT-MIX ASPHALT SURFACE COURSE, 1-1/2", MIX C, N50 (ADDITIONAL)	90.00	0	TON	-	79.34	7,140.60
TOTAL					\$65,267.05		\$56,668.87

PCO 21: A 2-inch PVC water line was added from the domestic water source to the Brine System, which provides a more consistent pressure to this system when the Ion Exchange Units are regenerating. Modifications were also made to the Chemical Room piping to ensure safe ventilation from the chemical tanks and proper recirculation of chemicals from the chemical skids to the chemical tanks (Add: \$6,563.37).

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PCO 26: Electrical conduit and wiring were required to interconnect Exhaust Fan EF-3 with Exhaust Louver EL-3 (Add: \$935.00).

PCO 27: As requested by the City, a momentary switch was furnished and installed on the disconnect box for the Sodium Hypochlorite Transfer Pump (Add: \$459.00).

Change of CONTRACT PRICE:

Original CONTRACT PRICE:	\$ <u>5,646,000.00</u>
Current CONTRACT PRICE adjusted by previous CHANGE ORDER(S)	\$ <u>5,665,161.50</u>
The CONTRACT PRICE due to this CHANGE ORDER will be (increased) (decreased)	
by:	\$ <u>32,030.66</u>
The new CONTRACT PRICE including this CHANGE ORDER will be	\$ <u>5,697,192.16</u>

Change to CONTRACT TIME:

The CONTRACT TIME will be ~~(increased)~~ ~~(decreased)~~ by 0 calendar days.
The date for completion of all work will be August 6, 2011 (Date.)

Approvals Required:

To be effective this order must be approved by the agency if it changes the scope or objective of the PROJECT, or as may otherwise be required by the SUPPLEMENTAL GENERAL CONDITIONS.

Requested by: _____ EVS Construction Company
Recommended by: _____ Engineering Enterprises, Inc.
Accepted by: _____ The City of St. Charles
Approved by: _____ Illinois Environmental Protection Agency

